

7/21/07

MODIFIED PTO/SB/08 (08-00)
Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: (use as many sheets as necessary)				Complete if Known Prior Application Number <u>09/741,737</u> Prior Appl. Filing Date <u>12/21/2000</u> First Named Inventor <u>Congxin Liang</u> Group Art Unit <u>Unassigned</u> Examiner Name <u>Unassigned</u> Attorney Docket Number <u>038602-1617</u>	
Sheet	1	of	4		

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A1	5,719,135	A	LONGO et al.	02-17-1998	
	A2	5,811,432		MARFAT et al.	09-22-1998	
	A3	5,916,891		ADAMS et al.	06-29-1999	
	A4	5,955,592		ULLRICH et al.	09-21-1999	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
47	A5	WO	87/04928	A1	MITSUI PETROCHEMICAL INDUSTRIES, LTD. et al.	08-27-1987		
	A6	WO	91/09598	A1	PFIZER INC.	07-11-1991		
	A7	WO	93/20078	A1	THE UPJOHN COMPANY	10-14-1993		
	A8	WO	96/16964	A1	PHARMACIA S.P.A.	06-06-1996		
	A9	WO	97/13771	A1	GLAXO GROUP LIMITED	04-17-1997		
	A10	WO	98/02437	A1	GLAXO GROUP LIMITED	01-22-1998		
	A11	WO	98/02438	A1	GLAXO GROUP LIMITED	01-22-1998		
	A12	WO	98/23613	A1	PFIZER INC.	06-04-1998		
	A13	WO	99/21859	A1	GLAXO GROUP LIMITED	05-06-1999		
	A14	WO	99/37622	A1	EISAI CO., LTD.	07-29-1999		

Examiner Signature	Date Considered	
--------------------	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, PO Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Prior Application Number	09/741,737 10/622,757
		Prior Appl. Filing Date	12/21/2000
Date Submitted: (use as many sheets as necessary)		First Name of Inventor	Congxin Liang
		Group Art Unit	Unassigned
Sheet 2 of 4		Examiner Name	Unassigned
		Attorney Docket Number	038602-1617

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
TCM	A15	AKBASAK et al., "Oncogenes: cause or consequence in the development of glial tumors," <u>Journal of the Neurological Sciences</u> , 1992, pp. 119-133, Vol. 111, Elsevier Science Publishers B.V.	
	A16	ARTEAGA et al., "Blockade of the Type I Somatomedin Receptor Inhibits Growth of Human Breast Cancer Cells in Athymic Mice," <u>Journal of Clinical Investigation</u> , November 1989, pp. 1418-1423, Vol. 84, The American Society for Clinical Investigation, Inc.	
	A17	BASERGA, "Oncogenes and the Strategy of Growth Factors," <u>Cell Minireview</u> , December 19, 1994, pp. 927-930, Vol. 79, Cell Press	
	A18	BASERGA, "The Insulin-like Growth Factor I Receptor: A Key to Tumor Growth?" <u>Cancer Research</u> , January 15, 1995, pp. 249-252, Vol. 55	
	A19	BOLEN et al., "The Src family of tyrosine protein kinases in hemopoietic signal transduction," <u>The FASEB Journal</u> , December 1992, pp. 3403-3409, Vol. 6, Bristol-Myers Squibb	
	A20	BROTT et al., "MEK2 is a Kinase Related to MEK1 and is Differentially Expressed in Murine Tissues," <u>Cell Growth & Differentiation</u> , November 1993, pp. 921-929, Vol. 4, American Association of Cancer Research	
	A21	CAMPBELL et al., "Evidence for Involvement of the Growth Hormone Receptor-associated Tyrosine Kinase in Actions of Growth Hormone," <u>The Journal of Biological Chemistry</u> , 1993, pp. 7427-7434, Vol. 268, No.10, The American Society for Biochemistry and Molecular Biology, Inc.	
	A22	CANCE et al., "Novel Protein Kinases Expressed in Human Breast Cancer," <u>International Journal of Cancer</u> , 1993, pp. 571-577, Vol. 54, Wiley-Liss, Inc.	
	A23	CLEAVELAND et al., "A Microtiter-Based Assay for the Detection of Protein Tyrosine Kinase Activity," <u>Analytical Biochemistry</u> , 1990, pp. 249-253, Vol. 190, Academic Press, Inc.	
	A24	COPPOLA, D. et al., "A Functional Insulin-Like Growth Factor I Receptor is Required for the Mitogenic and Transforming Activities of the Epidermal Growth Factor Receptor," <u>Molecular and Cellular Biology</u> , July 1994, pp. 4588-4595, Vol. 14, No. 7, American Society for Microbiology	
	A25	DAMASIO, "Alzheimer's disease and related dementias," <u>Cecil Textbook of Medicine</u> , 20 th Edition, 1996, pp. 1992-1996, Vol. 2	
✓	A26	DAVIS et al., Chapter 47, "Animal Cells: Cultivation, Growth Regulation, Transformation," <u>Microbiology 4th Ed.</u> , 1990, pp. 838-841, © J. B. Lippincott Company	

Examiner Signature: <i>[Signature]</i>	Date Considered: 7/6/04
--	-------------------------

*EXAMINER: Initial reference considered, whether or not citations in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, PO Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Prior Application Number	09/741,737 10/22/75-7
		Prior Appl. Filing Date	12/21/2000
Date Submitted:		First Named Inventor	Congxin Liang
		Group Art Unit	Unassigned
(use as many sheets as necessary)		Examiner Name	Unassigned McKenna
		Attorney Docket Number	038602-1617
Sheet	3	of	4

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
TCM	A27	DICKSON et al., "Tyrosine kinase receptor -- nuclear protooncogene interactions in breast cancer," <u>Cancer Treatment Research</u> , 1992, pp. 249-273, Vol. 61, 1991 Kluwer Academic Publishers, Boston	
	A28	DONATO et al., "Tumor Necrosis Factor Regulates Tyrosine Phosphorylation on Epidermal Growth Factor Receptors in A431 Carcinoma Cells: Evidence for a Distinct Mechanism," <u>Cell Growth and Differentiation</u> , May 1992, pp. 259-268, Vol. 3	
	A29	FARLEY et al., "Development of Solid-Phase Enzyme-Linked Immunosorbent Assays for the Determination of Epidermal Growth Factor Receptor and pp60 ^{src} Tyrosine Protein Kinase Activity," <u>Analytical Biochemistry</u> , 1992, pp. 151-157, Vol. 203, Academic Press, Inc.	
	A30	FLOEGE et al., "Factors involved in the regulation of mesangial cell proliferation <i>in vitro</i> and <i>in vivo</i> ," <u>Kidney International</u> , 1993, pp. S-47-S-54, Vol. 43, Suppl. 39, International Society of Nephrology	
	A31	GOLDRING et al., "Cytokines and Cell Growth Control," <u>Critical Reviews in Eukaryotic Gene Expression</u> , 1991, pp. 301-326, Vol. 1, No. 4	
	A32	HANSEN et al., "Application of two-dimensional gel analysis to identification and characterization of tyrosine phosphorylated substrates for growth factor receptors," <u>Electrophoresis</u> , 1993, pp. 112-126, Vol. 14, VCH Verlagsgesellschaft mbH, D-6940 Weinheim, 1993	
	A33	KATAGIRI et al., "Tyrosine-Phosphorylation of Tubulin during Monocytic Differentiation of HL-60 Cells," <u>The Journal of Immunology</u> , January 15, 1993, pp. 585-593, Vol. 150, No. 2, The American Association of Immunologists	
	A34	KORC et al., "Overexpression of the Epidermal Growth Factor Receptor in Human Pancreatic Cancer is Associated with Concomitant Increases in the Levels of Epidermal Growth Factor and Transforming Growth Factor Alpha," <u>Journal of Clinical Investigation</u> , October 1992, pp. 1352-1360, Vol. 90, The American Society for Clinical Investigation, Inc.	
	A35	LAYZER, "Degenerative diseases of the nervous system," <u>Cecil Textbook of Medicine</u> , 20 th Edition, 1996, pp. 2050-2057, Vol. 2	
	A36	LAZARO et al., "Description of an Enzyme-Linked Immunosorbent Assay for the Detection of Protein Tyrosine Kinase," <u>Biochemistry</u> , 1991, pp. 257-261, Vol. 192, Academic Press, Inc.	
	A37	LEE et al., "Intracellular Retention of Membrane-anchored v-sis Protein Abrogates Autocrine Signal Transduction," <u>The Journal of Cell Biology</u> , September 1992, pp. 1057-1070, Vol. 118, The Rockefeller University Press	

Examiner Signature	<i>Tom McKenna</i>	Date Considered	7/6/04
--------------------	--------------------	-----------------	--------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, PO Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Prior Application Number	09/741,737 10/622,787
		Prior Appl. Filing Date	12/21/2000
Date Submitted: (use as many sheets as necessary)		First Named Inventor	Congxin Liang
		Group Art Unit	Unassigned
Sheet 4 of 4		Examiner Name	Unassigned
		Attorney Docket Number	038602-1617

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
gla	A38	MACAULEY et al., "Autocrine Function for Insulin-like Growth Factor I in Human Small Cell Lung Cancer Cell Lines and Fresh Tumor Cells," <u>Cancer Research</u> , April 15, 1990, pp. 2511-2517, Vol. 50	
	A39	PERALDI et al., "Dephosphorylation of human insulin-like growth factor I (IGF-I) receptors by membrane-associated tyrosine phosphatases," <u>Biochem. J.</u> , 1992, pp. 71-78, Vol. 285	
	A40	PLOWMAN et al., "Receptor Tyrosine Kinases as Targets for Drug Intervention," <u>DN&P</u> , August 1994, pp. 334-339, Vol. 7, No. 6	
	A41	SANDBERT-NORDQVIST et al., "Characterization of Insulin-like Growth Factor 1 in Human Primary Brain Tumors," <u>Cancer Research</u> , June 1, 1993, pp. 2475-2478, Vol. 53	
	A42	SCHRAAG et al., "Standardization of an Enzyme-Linked Immunosorbent Assay for the Determination of Protein Tyrosine Kinase Activity," <u>Analytical Biochemistry</u> , 1993, pp. 233-239, Vol. 211, Academic Press, Inc.	
	A43	SIMONE, "Oncology: Introduction," <u>Cecil Textbook of Medicine</u> , 20 th Edition, 1996, pp. 1004-1010, Vol. 1	
	A44	SLAMON et al., "Studies of the HER-2/ <i>neu</i> Proto-oncogene in Human Breast and Ovarian Cancer," <u>Science Reports</u> , May 12, 1989, pp. 707-712, Vol. 244, American Association for the Advancement of Science	
	A45	TORP et al., "Expression of the epidermal growth factor receptor gene in human brain metastases," <u>APMIS</u> , 1992, pp. 713-719, Vol. 100, The Institute of Cancer Research	
	A46	TRAXLER et al., "Review: Oncologic, Endocrine & Metabolic Protein Tyrosine Kinase inhibitors in Cancer Treatment," <u>Exp. Opin. Ther. Patents</u> , 1997, pp. 571-588, Vol. 7, No. 6	
	A47	TUZI et al., "Expression of growth factor receptors in human brain tumours," <u>British Journal of Cancer</u> , 1993, pp. 227-233, Vol. 63	

Examiner
Signature

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, PO Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450.